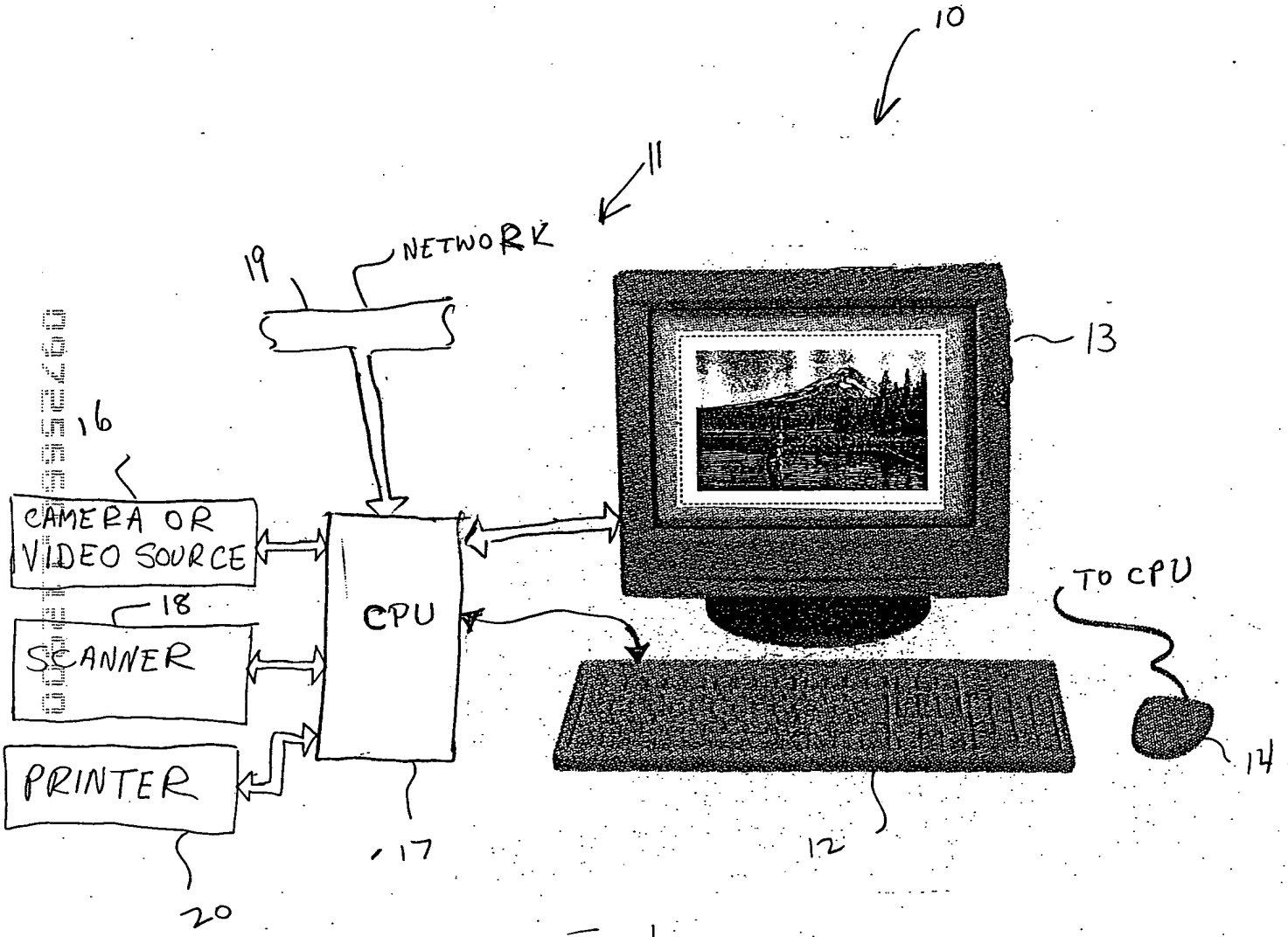

10
11
NETWORK
19
13
16
CAMERA OR VIDEO SOURCE
18
SCANNER
CPU
PRINTER
TO CPU
14
17
12
20

Fig. 1

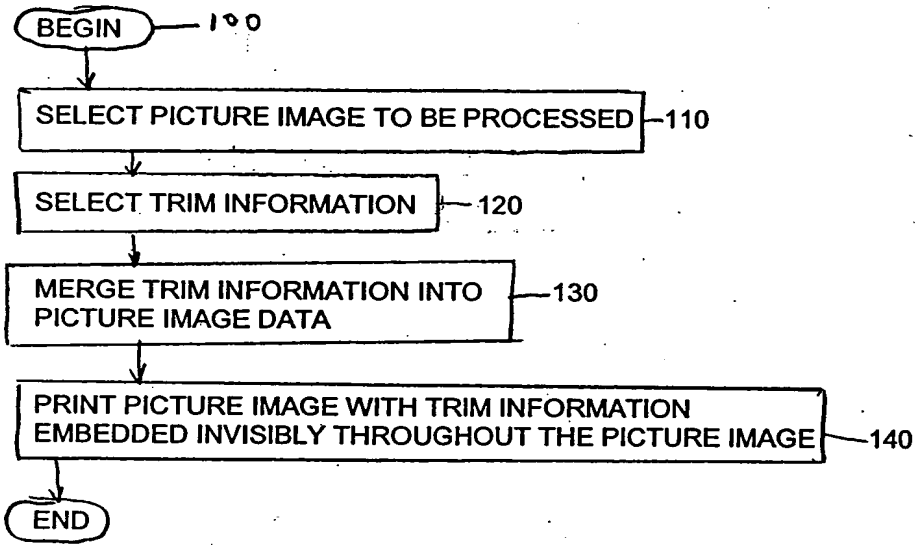

BEGIN
100
SELECT PICTURE IMAGE TO BE PROCESSED
110
SELECT TRIM INFORMATION
120
MERGE TRIM INFORMATION INTO PICTURE IMAGE DATA
130
PRINT PICTURE IMAGE WITH TRIM INFORMATION EMBEDDED INVISIBLY THROUGHOUT THE PICTURE IMAGE
140
END

Fig. 2

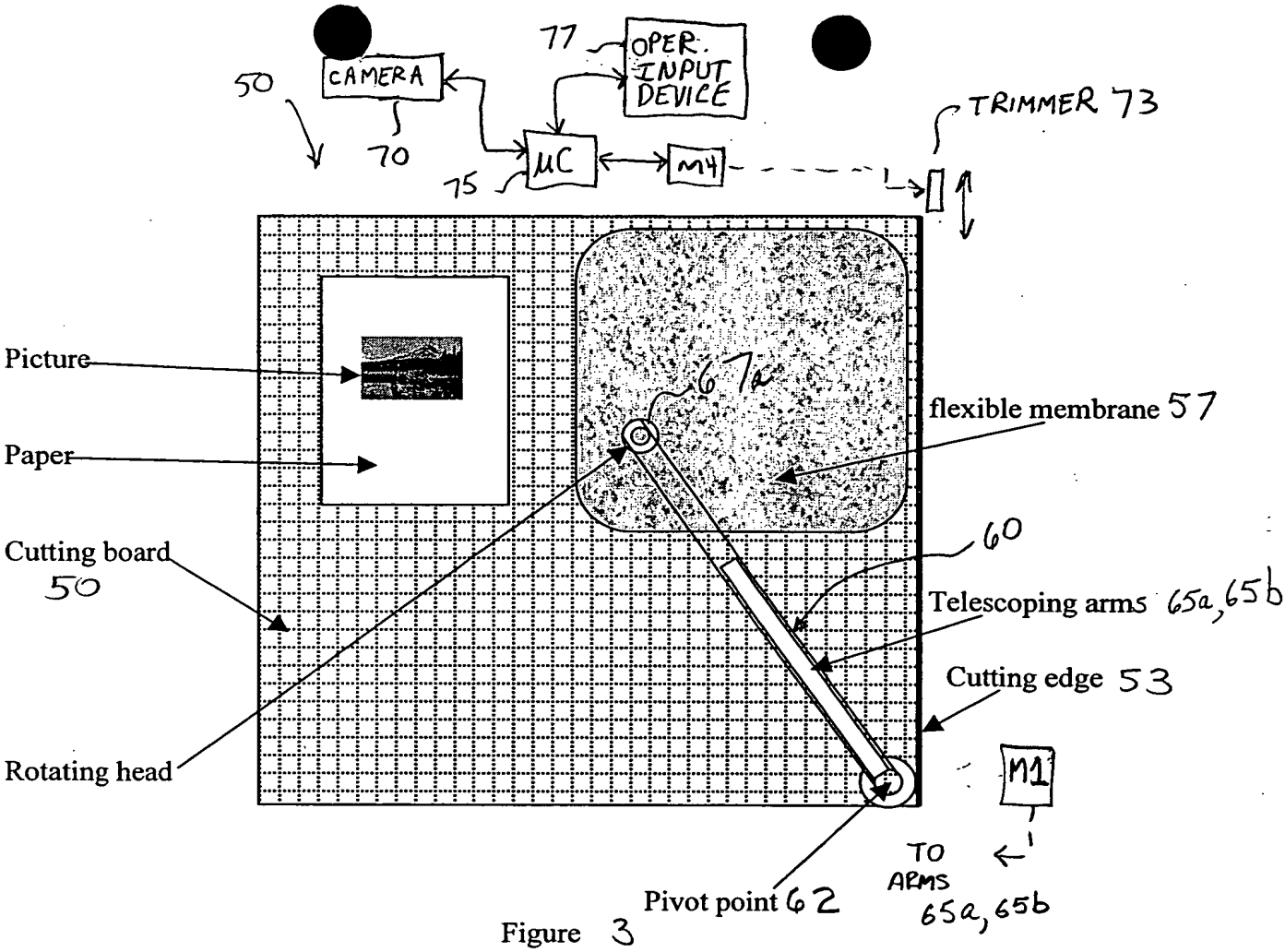


Figure 3

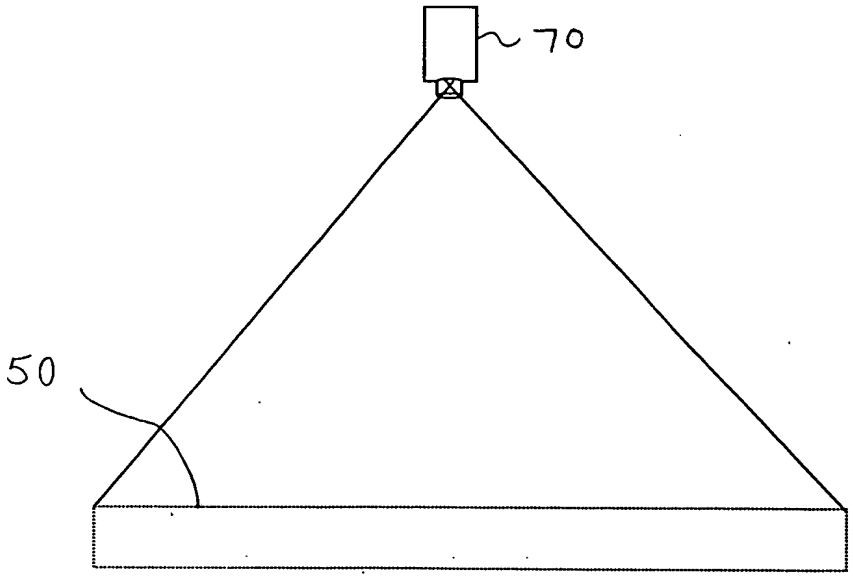


Figure 4

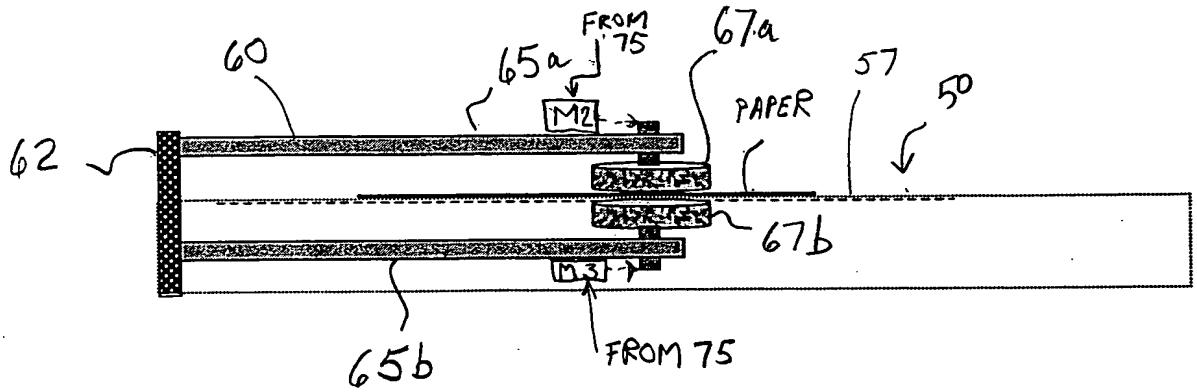


Figure 5

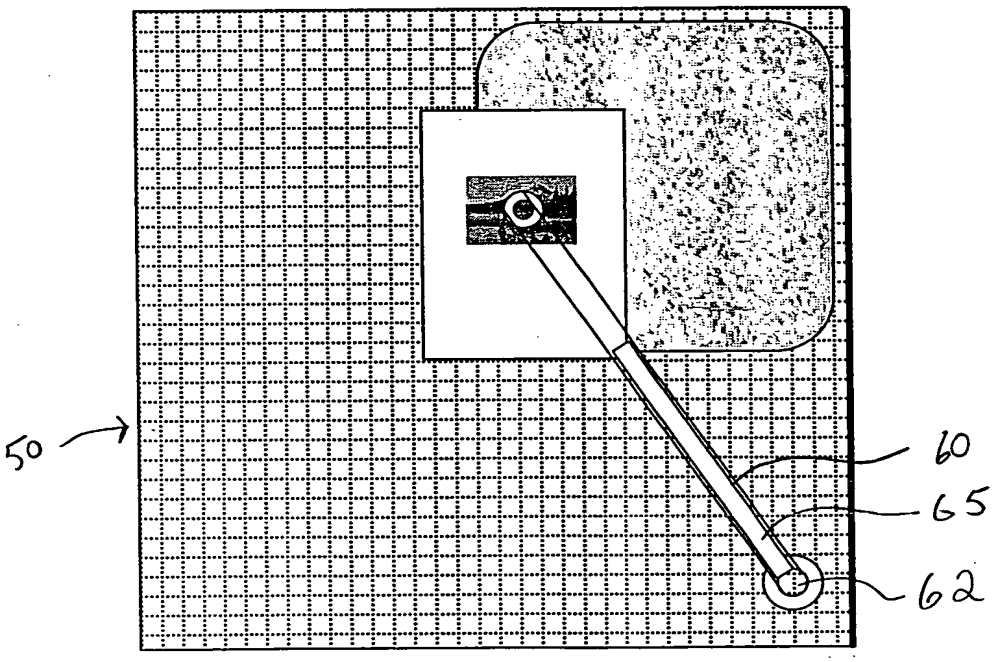
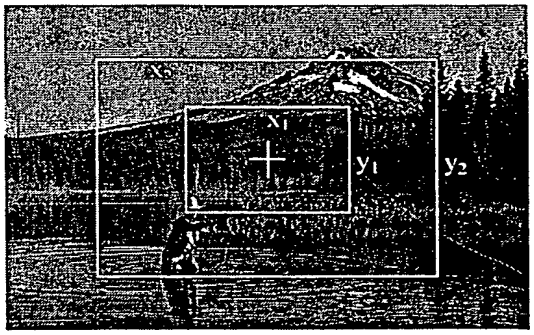


Figure 6

x_{cut} →



↑
y_{cut}

Figure 7

Algorithm applied:

$x_{cut} = x_1 + x_2$
$y_{cut} = y_1 + y_2,$

centered on the crosshairs

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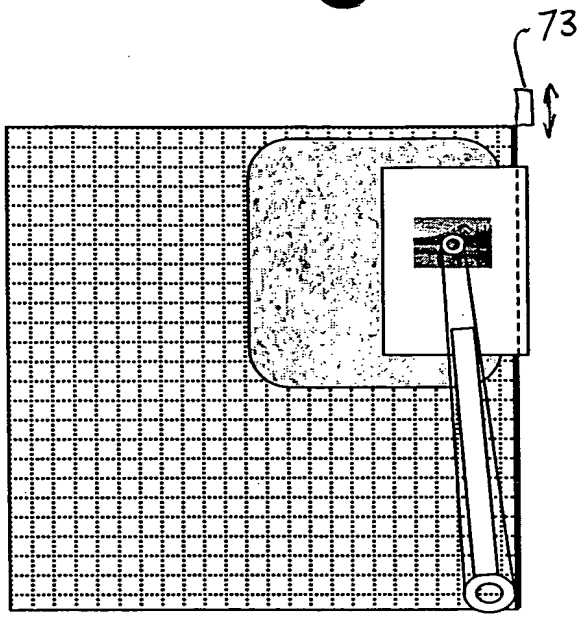

Figure 8a
Head translation & rotation to first edge cut

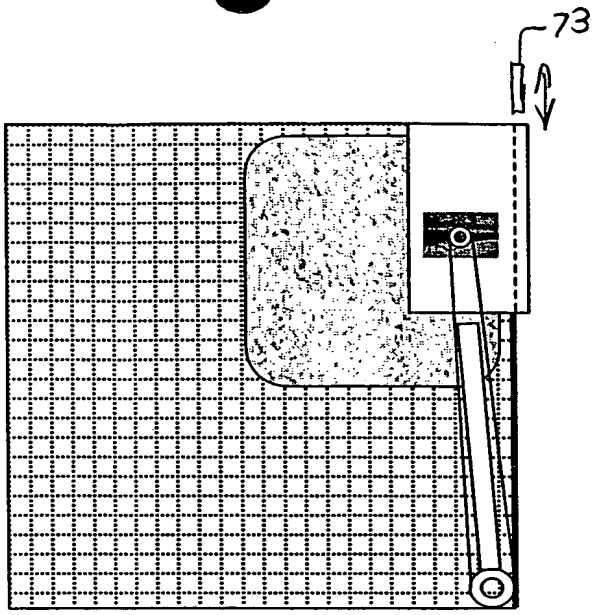

Figure 8b
180 deg rotation to second edge cut

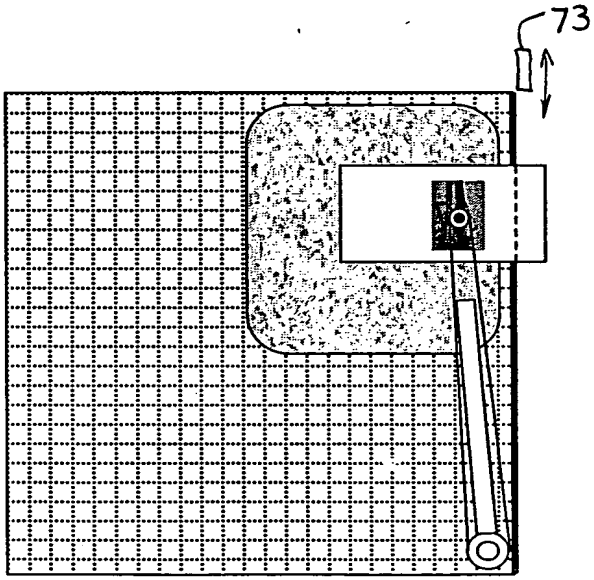

Figure 8c
Head translation and 90 deg rotation to third edge cut

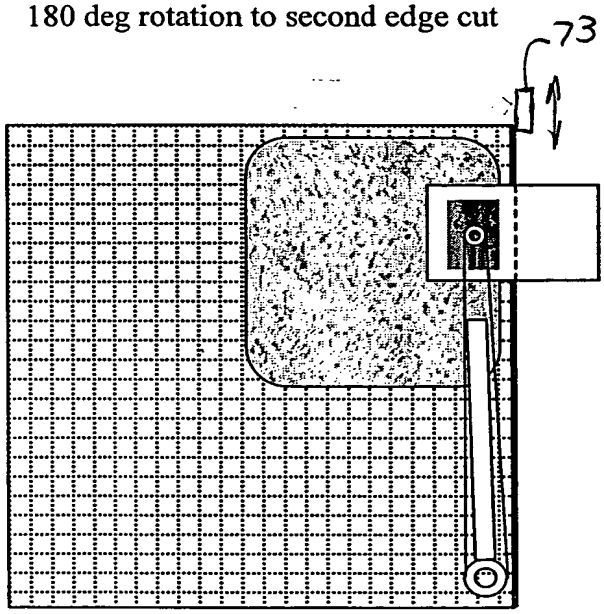

Figure 8d
180 deg rotation to last edge cut

Figure 8e
Finished cut

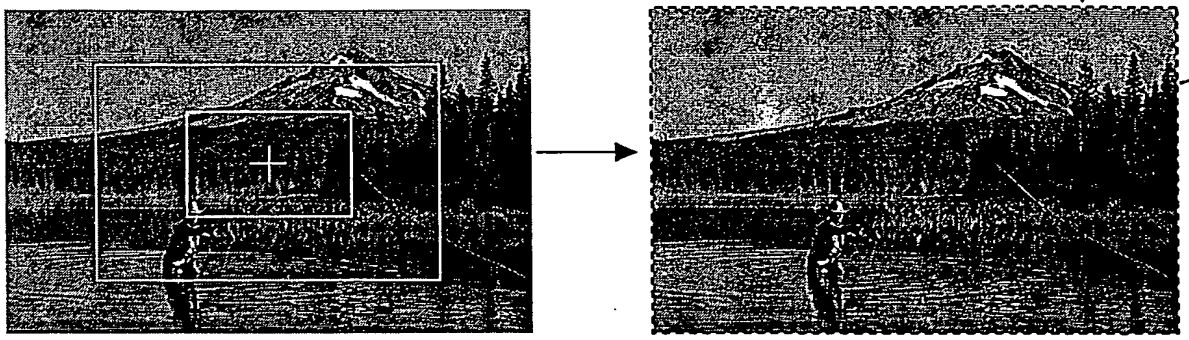

Fig. 9a Normal Cut Fig 9b

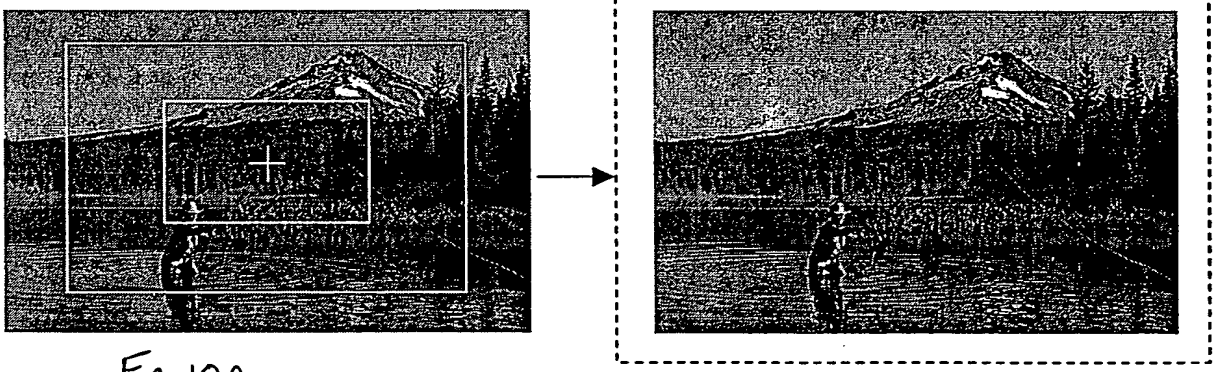

Fig 10a Half-inch Border Cut Fig 10b

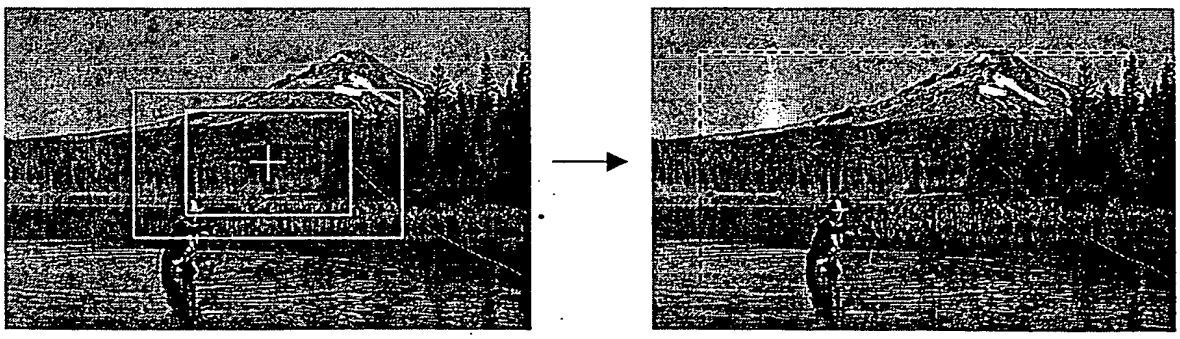

Fig. 11a Center Crop Fig. 11b

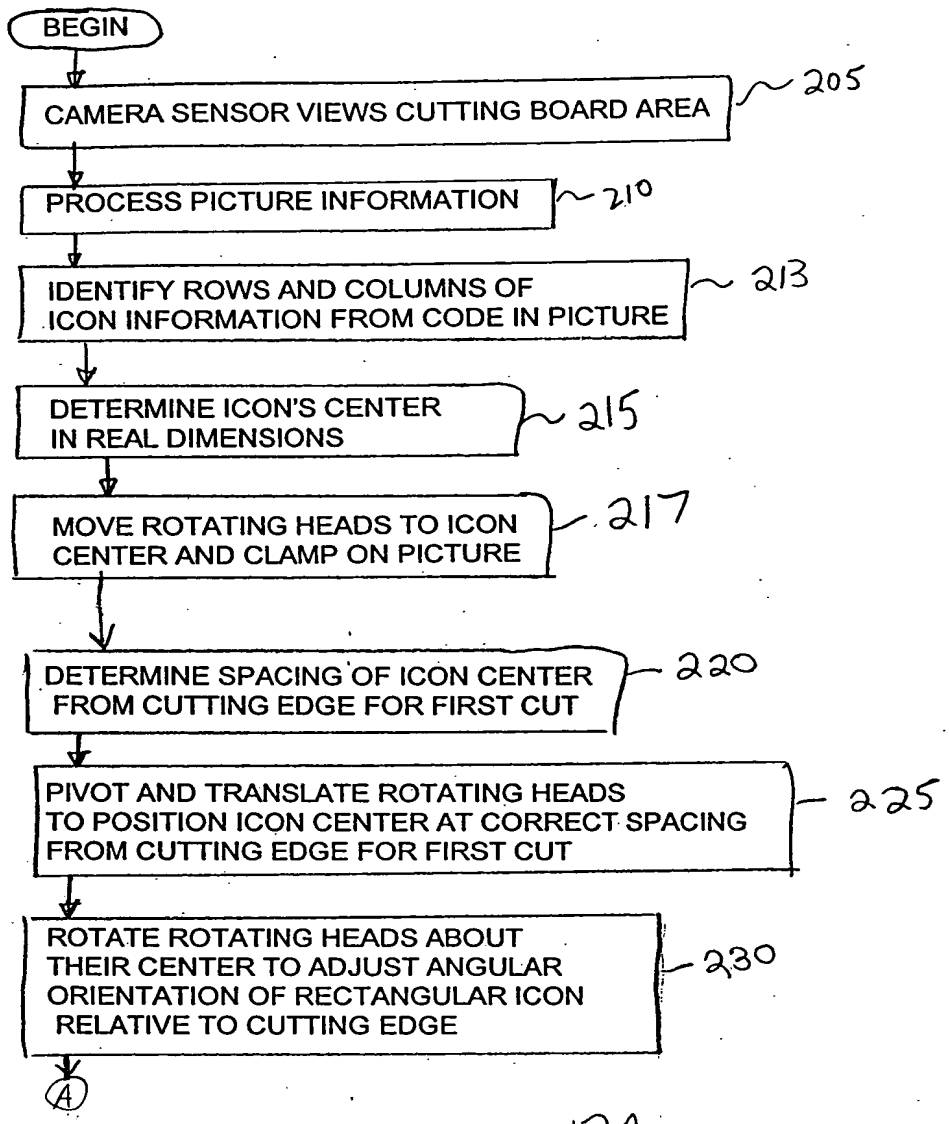

Fig 12A

Fig. 12A

Fig. 12B

Fig 12

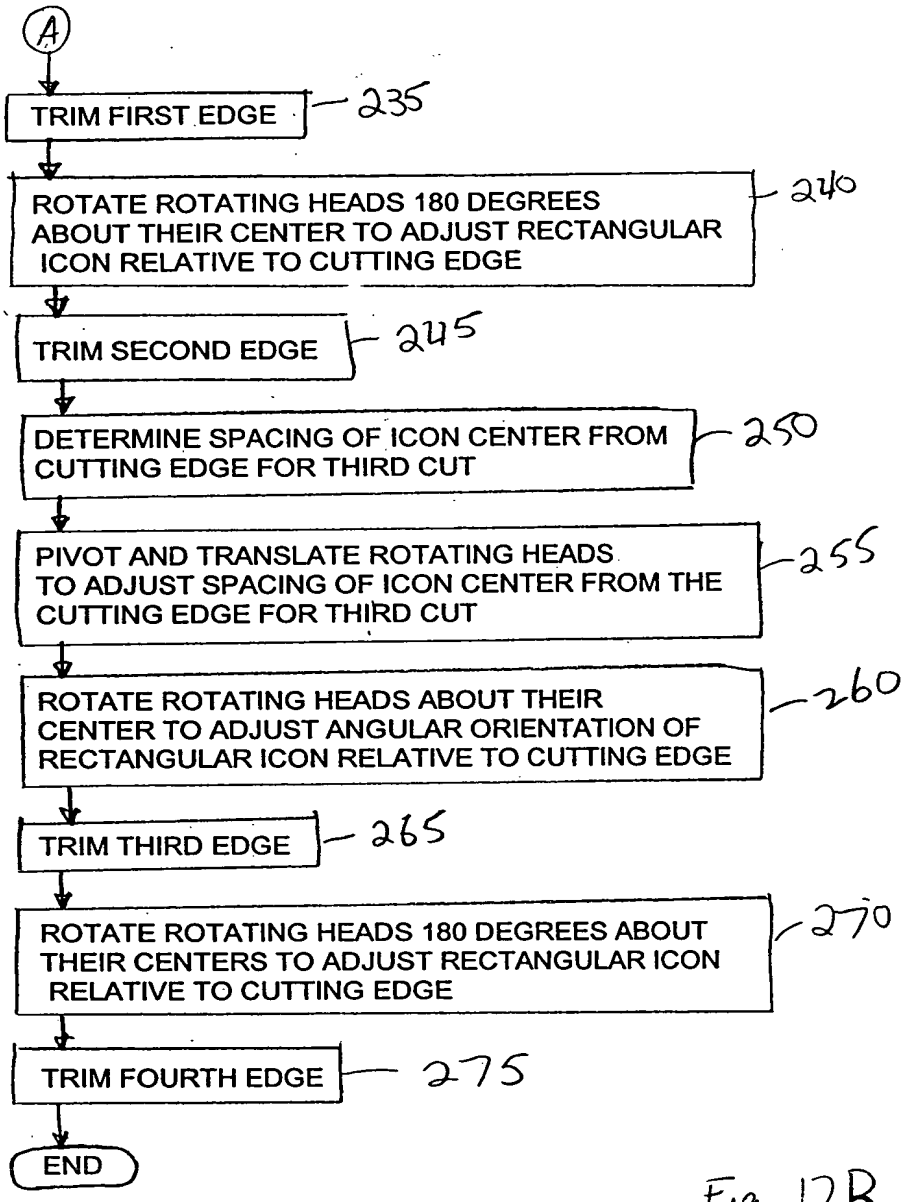
A
TRIM FIRST EDGE
235
ROTATE ROTATING HEADS 180 DEGREES ABOUT THEIR CENTER TO ADJUST RECTANGULAR ICON RELATIVE TO CUTTING EDGE
240
TRIM SECOND EDGE
245
DETERMINE SPACING OF ICON CENTER FROM CUTTING EDGE FOR THIRD CUT
250
PIVOT AND TRANSLATE ROTATING HEADS TO ADJUST SPACING OF ICON CENTER FROM THE CUTTING EDGE FOR THIRD CUT
255
ROTATE ROTATING HEADS ABOUT THEIR CENTER TO ADJUST ANGULAR ORIENTATION OF RECTANGULAR ICON RELATIVE TO CUTTING EDGE
260
TRIM THIRD EDGE
265
ROTATE ROTATING HEADS 180 DEGREES ABOUT THEIR CENTERS TO ADJUST RECTANGULAR ICON RELATIVE TO CUTTING EDGE
270
TRIM FOURTH EDGE
275
END

Fig. 12B